

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	10/571247	US-PGPUB; USPAT	ADJ	ON	2008/11/26 08:25
S2	4	porsche, peter.in.	US-PGPUB; USPAT	ADJ	ON	2008/11/26 08:27
S3	5	("3849232"   "4102778"   "4267978"   "5882610"   "6613219").PN.	US-PGPUB; USPAT	ADJ	ON	2008/11/26 08:30
S5	31	("0470060"   "0491659"   "2758061"   "3132064"   "3412778"   "3437124").PN. OR ("3849232").URFN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/11/26 08:44
S6	17	("2331915"   "2918425"   "3275545"   "3485887"   "3751515"   "3775291"   "3900388"   "4039430").PN. OR ("4102778").URFN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/11/26 08:46
S7	7	("3132064").URFN.	USPAT	ADJ	ON	2008/11/26 08:47
S8	9	("1005553"   "3016067"   "3132064").PN. OR ("4154642").URFN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/11/26 08:49
S9	2	("1005553").URFN.	USPAT	ADJ	ON	2008/11/26 08:50
S10	570	422/197.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/11/26 09:07
S11	2	("4886089"   "5445801").PN. OR ("5911958").URFN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/11/26 09:18
S12	1449	137/1,263.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/11/26 09:30
S13	3	137/1,263.ccls. and tub\$4 reactor	US-PGPUB; USPAT	ADJ	ON	2008/11/26 09:31
S14	27	137/1,263.ccls. and tub\$4 and reactor	US-PGPUB; USPAT	ADJ	ON	2008/11/26 09:31

S15	65850	liquid with distribut\$3	US-PGPUB; USPAT	ADJ	ON	2008/12/01 17:46
S16	618	liquid with distribut\$3 same tube same liquid with phase	US-PGPUB; USPAT	ADJ	ON	2008/12/01 17:47
S17	8	liquid with distribut\$3 same tube same liquid with phase and tubesheet	US-PGPUB; USPAT	ADJ	ON	2008/12/01 17:47
S18	5	("5808136"   "5831120"   "5859287").FN. OR ("6013834").URFN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/01 17:48
S20	42	liquid with distribut\$3 same tub\$3 and tubesheet	US-PGPUB; USPAT	ADJ	ON	2008/12/01 17:49
S21	3	"2919462"	EPO; JPO; DERWENT	ADJ	ON	2008/12/01 19:25
S22	25	liquid same distribut \$3 same tub\$3 and tubesheet and second with liquid	US-PGPUB; USPAT	ADJ	ON	2008/12/01 19:34
S23	8	liquid with distribut\$3 same tub\$3 same liquid with phase and tubesheet	US-PGPUB; USPAT	ADJ	ON	2008/12/02 07:56
S24	5	("5808136"   "5831120"   "5859287").FN. OR ("6013834").URFN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/02 07:56
S25	31	("0470060"   "0491659"   "2758061"   "3132064"   "3412778"   "3437124").FN. OR ("3849232").URFN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/02 07:57
S26	6	("470060").URFN.	USPAT	ADJ	ON	2008/12/02 08:01
S30	6	liquid same distribut \$3 same tub\$3 and tubesheet and weir	US-PGPUB; USPAT	ADJ	ON	2008/12/02 09:30
S31	7	liquid same distribut \$3 same tubesheet and weir	US-PGPUB; USPAT	ADJ	ON	2008/12/02 09:30
S32	14	liquid same distribut \$3 and tubesheet and weir	US-PGPUB; USPAT	ADJ	ON	2008/12/02 09:30

S33	536	liquid same distribut \$3 and overflow weir	US-PGPUB; USPAT	ADJ	ON	2008/12/02 13:45
S34	143	liquid same distribut \$3 same overflow weir	US-PGPUB; USPAT	ADJ	ON	2008/12/02 13:45
S35	3	liquid same distribut \$3 same overflow weir and tube sheet	US-PGPUB; USPAT	ADJ	ON	2008/12/02 13:45
S36	1	liquid same distribut \$3 same overflow weir and tubesheet	US-PGPUB; USPAT	ADJ	ON	2008/12/02 13:45
S37	10	("3526274"   "3662817").FN. OR ("3854523").URFN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/02 13:46
S38	67	liquid same distribut \$3 same overflow weir and tub\$4	US-PGPUB; USPAT	ADJ	ON	2008/12/02 13:47
S39	87	liquid with distribut\$3 same overflow weir	US-PGPUB; USPAT	ADJ	ON	2008/12/02 13:52
S40	132	distribut\$3 with overflow weir	US-PGPUB; USPAT	ADJ	ON	2008/12/02 14:04
S41	11	("3926342"   "4112828"   "4259360"   "4416194"   "4434112"   "4477396").FN. OR ("4531456").URFN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/02 14:07
S42	104	distribut\$3 and overflow weir	EPO; JPO; DERWENT	ADJ	ON	2008/12/02 14:09
S43	3	("491659").URFN.	USPAT	ADJ	ON	2008/12/02 14:13
S44	394	liquid with distribut\$3 with overflow	US-PGPUB; USPAT	ADJ	ON	2008/12/02 14:17
S45	38	liquid with distribut\$3 with overflow with tray	US-PGPUB; USPAT	ADJ	ON	2008/12/02 14:17
S46	25	("0724511"   "2215189"   "3195515"   "3261392"   "3351119").FN. OR ("4216002").URFN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/02 14:19

S47	20	("0351796"   "0389075"   "1770320"   "2392255"   "4216002"   "4422899").FN. OR ("4925526").URFN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/02 14:21
S48	12	("3997389"   "4264538"   "4298041"   "4404928"   "4842055"   "4925526"   "5770020"   "5904807").FN. OR ("6066232").URFN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/02 14:23
S49	10	liquid with distribut\$3 with overflow with box	US-PGPUB; USPAT	ADJ	ON	2008/12/02 14:29
S50	269	liquid with distribut\$3 with insert	US-PGPUB; USPAT	ADJ	ON	2008/12/02 14:41
S51	297	liquid with distribut\$3 with sleeve	US-PGPUB; USPAT	ADJ	ON	2008/12/02 14:41
S52	24	liquid with distribut\$3 with insert with opening	US-PGPUB; USPAT	ADJ	ON	2008/12/02 14:41
S53	49	liquid with distribut\$3 with sleeve with opening	US-PGPUB; USPAT	ADJ	ON	2008/12/02 14:41
S54	14	liquid with distribut\$3 with sleeve with aperture	US-PGPUB; USPAT	ADJ	ON	2008/12/02 14:43
S55	7	liquid with distribut\$3 with insert with aperture	US-PGPUB; USPAT	ADJ	ON	2008/12/02 14:43
S56	28	liquid with distribut\$3 with sleeve with hole	US-PGPUB; USPAT	ADJ	ON	2008/12/02 14:44
S57	8	liquid with distribut\$3 with insert with hole	US-PGPUB; USPAT	ADJ	ON	2008/12/02 14:44
S58	14	("2718279"   "3085626"   "3403726"   "3603103"   "3924675"   "4286436"   "4296612"   "4335581").FN. OR ("4442679").URFN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/02 14:46
S59	1	liquid with distribut\$3 with insert with wire	US-PGPUB; USPAT	ADJ	ON	2008/12/02 15:22

S60	4	liquid with distribut\$3 same insert with wire	US-PGPUB; USPAT	ADJ	ON	2008/12/02 15:22
S61	0	liquid with distribut\$3 same insert with flow aid	US-PGPUB; USPAT	ADJ	ON	2008/12/02 15:24
S62	1	liquid with distribut\$3 same insert with mesh	US-PGPUB; USPAT	ADJ	ON	2008/12/02 15:24
S63	302	liquid with distribut\$3 with mesh	US-PGPUB; USPAT	ADJ	ON	2008/12/02 15:24
S64	1	liquid with distribut\$3 with mesh with sleeve	US-PGPUB; USPAT	ADJ	ON	2008/12/02 15:24
S65	13	liquid with distribut\$3 with mesh with hole	US-PGPUB; USPAT	ADJ	ON	2008/12/02 15:25
S66	6	liquid with distribut\$3 with mesh with aperture	US-PGPUB; USPAT	ADJ	ON	2008/12/02 15:26
S67	6	liquid with distribut\$3 with wire with hole	US-PGPUB; USPAT	ADJ	ON	2008/12/02 15:26
S68	2	liquid with distribut\$3 with wire with aperture	US-PGPUB; USPAT	ADJ	ON	2008/12/02 15:26
S69	194	liquid same distribut \$3 and insert with roll \$3	US-PGPUB; USPAT	ADJ	ON	2008/12/02 16:01
S70	0	liquid same distribut \$3 and insert with roll \$3 and tubesheet	US-PGPUB; USPAT	ADJ	ON	2008/12/02 16:01
S71	1	liquid same distribut \$3 and insert with roll \$3 and tube sheet	US-PGPUB; USPAT	ADJ	ON	2008/12/02 16:01
S72	84	liquid same distribut \$3 and insert with roll \$3 and tube	US-PGPUB; USPAT	ADJ	ON	2008/12/02 16:01
S73	257	liquid same distribut \$3 and non miscib\$5	US-PGPUB; USPAT	ADJ	ON	2008/12/02 16:08
S74	166	liquid same distribut \$3 and non miscib\$5 and gas	US-PGPUB; USPAT	ADJ	ON	2008/12/02 16:09
S75	127	liquid same distribut \$3 and non miscib\$5 and gas and tub\$4	US-PGPUB; USPAT	ADJ	ON	2008/12/02 16:09
S76	117	liquid same distribut \$3 and non miscib\$5 and gas and tube	US-PGPUB; USPAT	ADJ	ON	2008/12/02 16:11

S77	1	liquid same distribut \$3 and non miscibl\$5 and gas and tube bundle	US-PGPUB; USPAT	ADJ	ON	2008/12/02 16:11
S78	22	liquid same distribut \$3 and nonmiscibl\$5 and gas and tube	US-PGPUB; USPAT	ADJ	ON	2008/12/02 16:12
S79	43	liquid same distribut \$3 and non miscibl\$5 liquid and gas and tube	US-PGPUB; USPAT	ADJ	ON	2008/12/02 16:14
S80	49	liquid same distribut \$3 and non miscibl\$5 liquid and gas and tub \$4	US-PGPUB; USPAT	ADJ	ON	2008/12/02 16:16
S81	6	liquid same distribut \$3 and non miscibl\$5 liquid and gas and tub \$4 not S79	US-PGPUB; USPAT	ADJ	ON	2008/12/02 16:16
S82	56	liquid same distribut \$3 and non miscibl\$5 liquid and tub\$4	US-PGPUB; USPAT	ADJ	ON	2008/12/02 16:17
S83	7	liquid same distribut \$3 and non miscibl\$5 liquid and tub\$4 not S80	US-PGPUB; USPAT	ADJ	ON	2008/12/02 16:18
S84	14	("0507442"   "1113005"   "1712184"   "2519971").PN. OR ("3695509").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/02 16:20
S85	6	liquid same distribut \$3 same non miscibl \$5 liquid same mix\$3	US-PGPUB; USPAT	ADJ	ON	2008/12/02 16:20
S86	100	("0591494"   "20010030295"   "20020038582"   "20020078793"   "20020089074"   "20020148640"   "20030042126"   "20030043690"   "20030066624"   "2261257"   "2295740"   "2314598"   "2474006"   "2577247"   "3095349"   "3215642"   "3595531"	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/02 16:21

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"5674004"

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S87	1010	"366".clas. and emulsion	US-PGPUB; USPAT	ADJ	ON	2008/12/02 16:24
S88	486	"366".clas. and emulsion and tub\$4	US-PGPUB; USPAT	ADJ	ON	2008/12/02 16:24
S89	426	"366".clas. and emulsion and tub\$4 and liquid	US-PGPUB; USPAT	ADJ	ON	2008/12/02 16:24
S90	210	"366".clas. and emulsion and tub\$4 and liquid and gas	US-PGPUB; USPAT	ADJ	ON	2008/12/02 16:24
S91	19	"366".clas. and emulsion and tub\$4 and liquid and gas and distributor	US-PGPUB; USPAT	ADJ	ON	2008/12/02 16:25
S92	41	("2385200"   "2399560"   "2523126"   "3431084"   "3541000"   "3705016"   "3824081"   "3884643").FN. OR ("4140625").URFN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/02 16:26
S93	25	"366".clas. and non miscib\$5	US-PGPUB; USPAT	ADJ	ON	2008/12/02 16:27
S94	4	"366".clas. and nonmiscib\$5	US-PGPUB; USPAT	ADJ	ON	2008/12/02 16:27
S95	41	non miscib\$5 same tub \$4 same mix\$4	US-PGPUB; USPAT	ADJ	ON	2008/12/02 16:36



S96	12	("2284255"   "2878063").PN. OR ("4133485").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/02 17:14
S97	15337	tubular same (column or tower)	US-PGPUB; USPAT	ADJ	ON	2008/12/02 17:25
S98	9883	tubular with (column or tower)	US-PGPUB; USPAT	ADJ	ON	2008/12/02 17:25
S99	86	tubular with (column or tower) same liquid same distribut\$3	US-PGPUB; USPAT	ADJ	ON	2008/12/02 17:26
S100	39	("1983762"   "2201301"   "2226128"   "2493017"   "2569909"   "2668620"   "2863318"   "2903224"   "2936043"   "3076480"   "3227429"   "3251176"   "3278169"   "3353799"   "3399870"   "3502596"   "3548568"   "3590560").PN. OR ("3722839").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/02 17:32
S101	376	atomiz\$3 and tubular reactor	US-PGPUB; USPAT	ADJ	ON	2008/12/02 17:42
S102	47	atomiz\$3 same tubular reactor	US-PGPUB; USPAT	ADJ	ON	2008/12/02 17:42
S103	3	"2455103"	EPC; JPO; DERWENT	ADJ	ON	2008/12/03 07:27
S104	1	"4195779".pn.	US-PGPUB; USPAT	ADJ	ON	2008/12/03 07:27
S105	29	("0893833"   "1410942"   "1432227"   "1503817"   "1799459"   "2358386"   "2374290"   "3286992"   "3493181"   "3775063").PN. OR ("4195779").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/03 07:28
S106	141	137/1,263.ccls. and tub\$4 and distribut\$3	US-PGPUB; USPAT	ADJ	ON	2008/12/03 07:30

S107	8	("1522366"   "2519618"   "2545028").PN. OR ("3578004").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/03 07:34
S108	13	("2519618").URPN.	USPAT	ADJ	ON	2008/12/03 07:39
S109	18	("1567455"   "2519618"   "2651647"   "2753594"   "2779724"   "3451990"   "3476570").PN. OR ("3900326").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/03 07:51
S110	2	("1567455").URPN.	USPAT	ADJ	ON	2008/12/03 07:57
S111	70	liquid distribut\$3 with (wire or mesh)	US-PGPUB; USPAT	ADJ	ON	2008/12/03 07:58

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